

PATENT

Atty Docket No.: 200208214-1

App. Ser. No.: 10/608,206

IN THE SPECIFICATION:*Please amend the paragraph beginning on page 8, line 8 as follows:*

Conventional cooling systems are designed to remove heat from components as if the components are continually operating at maximum capacity or power levels (i.e., in an operating state where the components are dissipating the maximum amount of heat). The cooling system, according to an embodiment of the invention, may be designed based on nominal heat dissipation rather than maximum heat dissipation of the computer systems, such as described in co-pending and commonly assigned U.S. Patent Application Serial Number 10/608,151 (Attorney Docket No. 200208212-1), entitled, "Cooling System for Computer Systems", hereby incorporated by reference in its entirety. Nominal heat dissipation may be estimated based on the average heat dissipated of the components of the computer systems, or nominal heat dissipation may be a standard deviation of the average heat dissipation. Other statistical techniques may be used to determine nominal heat dissipation, which may be based on actual measurements or estimations of heat dissipation. Alternatively, the nominal heat dissipation may be based on the heat dissipation of a computer system running a typical workload (e.g., the workload the computer system may operate for a majority of its operation time). The workload of a computer system may be known or estimated by historical measurements of workload for the computer system, monitoring workload of existing computer systems or by testing.

Please amend the paragraph beginning on page 25, line 10 as follows:

The cooling system 430 is also operable to dynamically distribute cooling fluid to the computer systems 410 based on heat dissipation. The cooling provisioning system 436 controls the cooling components 434 to distribute cooling fluid to each of the computer

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systems 410 based on the amount of heat dissipated by each of the respective computer systems 410, which is measured by the heat sensors 430. The cooling components 434 may include fans, blowers, louvers, pumps, valves, etc. for distributing cooling fluid in an enclosure, such as a rack. As described above, U.S. Patent Application Number 10/608,151 (Attorney Docket No. 200208212-1), which was incorporated by reference above in its entirety, discloses a cooling system designed based on nominal heat dissipation and operable to dynamically distribute cooling fluid.